

ATTACHMENT 5
APPLICATION ATTACHMENT TABS
GAP MONITOR WELL INSTALLATION PROGRAM – 2013
KAWEAH DELTA WATER CONSERVATION DISTRICT

Attachment 5 – Work Plan

5.1 Proposed Project Scope

The Kaweah Delta Water Conservation District (District) performs annual evaluations of the adequacy of its monitor well network. This evaluation results in the identification of historic well locations which have been lost or destroyed and identification of gaps in monitor locations which have been developed (**See Figure 5-1**). Additional data gap areas are identified which are associated with significant land use changes and development of wells which are completed above and below the “E” Clay layer. The scope of work is to prioritize the current data gap areas and, to the extent possible, drill, case and develop new monitor wells in the identified gap areas.

5.2 Proposed Project Goals and Objectives

The goal of the Kaweah Delta Water Conservation District’s (District) Groundwater Management Plan (GWMP) is to offer efficient and effective groundwater management in an effort to provide a sustainable, high quality supply of groundwater for agricultural, environmental and urban use for the future. The beneficial characteristic of the District’s monitor well network is to obtain technical information and to maintain the improvement of a groundwater evaluation tool in which the District uses to periodically update the District’s Water Resources Investigation, maintain the District’s involvement in the California Statewide Groundwater Elevation Monitoring (CASGEM) program, provide accurate information for State and Federal water reporting, and updates to the GWMP through annual reports. The objective of this Proposal is to prioritize the current data gap areas identified in the monitor well network, through the development of twelve (12) new monitor wells that would be used to provide information, which is used by several agencies, focused on groundwater conditions and the evaluation of surface water importation, groundwater recharge and development of land use planning policies. Accomplishment of the proposed Project would allow for the continued success in the District’s Basin Management Objectives to stabilize and potentially reverse the long-term decline of groundwater levels, evaluate groundwater replenishment projects, evaluate cooperative management projects, and coordinate groundwater basin management with local agencies.

5.3 Budget Category (a)/Task 1 - Direct Project Administration Costs

5.3.1 Task 1.1 – DWR Grant Administration

The District Engineer, Engineering Technician and Consultant Engineer will administer the Improvement of Kaweah Delta Water Conservation District’s Monitor Well Network Project (Project). Administration work will include attending regularly scheduled meetings, verifying monthly invoices of work, pay requests from contractors, certified weekly payrolls and verification that prevailing wage compliance is being achieved. Minutes from the regularly scheduled meetings, along with copies of monthly invoices of work, pay requests from

contractors, certified weekly payrolls and verification of prevailing wage compliance will be included with the appropriate quarterly report submitted to DWR.

5.3.2 Task 1.2 – DWR Grant Reporting

The District Engineer, Engineering Technician and Consultant Engineer will complete all work required for the Grant Reporting as outlined in the contract that the District would sign with the State of California, Department of Water Resources (DWR). Work is anticipated to include the submittals of quarterly reports detailing Project progress, invoicing, and updated schedules. Additional work will be the completion of the final Project report and submittal to DWR.

5.5.4 Budget Category (b)/Task 2 – Land Easement

5.4.1 Task 2.1 – Development of Easement Documentation

The District Engineer and Consultant Engineer will work with local landowners to develop acceptable easement documentation. Once an easement has been acquired and all documentation has been accepted by both parties, the District will provide a copy of said documentation to DWR.

5.4.2 Task 2.2 – Purchase of Easements

All land easements associated with the Project are anticipated to be acquired free of charge. Documents indicating that an easement has been acquired free of charge will be listed in the documents detailed in Task 2.1.

5.5.5 Budget Category (c)/Task 3 – Environmental Documentation

5.5.1 Task 3.1 – Development of an Environmental Checklist

The District Engineer and Consultant Engineer will complete an environmental checklist, which will determine the appropriate environmental document needed to be completed for the Project. Based on a preliminary evaluation and prior similar actions taken by the District, it is assumed that a Negative Declaration will be required to comply with the California Environmental Quality Act (CEQA).

5.5.2 Task 3.2 – Development of a Draft Negative Declaration

The District Engineer and Consultant Engineer will develop the necessary CEQA document, based on the findings from the environmental checklist, which is assumed to be a Negative Declaration. An initial study will be completed that will analyze the Project impacts to agricultural resources, air quality, biological resources, cultural resources, greenhouse gas emissions, hydrology and water quality, noise, population and housing and transportation and traffic. Upon completion of the initial study, a draft CEQA document will be developed. Once developed, the CEQA document will be sent to DWR for review.

5.5.3 Task 3.3 – Generation of the Final Negative Declaration

Upon approval from DWR, the final CEQA document will be prepared for public review circulation, which will include local agencies and the public via the State Clearinghouse and the District office.

5.5.4 Task 3.4 – Public Review & Adoption of Negative Declaration

The District will circulate, for thirty (30) days, the CEQA document for public review. Upon completion of the circulation period, comments, if any, will be reviewed and submitted along with the CEQA document for adoption by the District's Board of Directors. If adopted, the District Board of Directors will pass a resolution adopting the CEQA document and will authorize the District Engineer to file a Notice of Determination for the Project with the State Clearinghouse, Kings County Clerk and Tulare County Clerk. Copies of the resolution adopting the CEQA document, Notice of Determination, filing with the State Clearinghouse, Kings County Clerk and Tulare County Clerk will be supplied to DWR along with a copy of the final CEQA document within thirty (30) days of adoption.

5.6 Budget Category (d)/Task 4 – Engineering

5.6.1 Task 4.1 – Design of Area A Monitor Wells

Task 4.2 – Design of Area A Monitor Wells

Task 4.3 – Design of Area A Monitor Wells

Task 4.4 – Design of Area A Monitor Wells

Task 4.5 – Design of Area A Monitor Wells

Task 4.6 – Design of Area A Monitor Wells

Construction Drawings and Specifications will be prepared by the District Consultant Engineer specific to all twelve (12) Monitor Wells. Said Drawings and Specifications will be prepared for the public bid process and construction. The District will transmit a copy of the final Construction Drawings and Specifications upon completion of the public bid process.

5.7 Budget Category (e)/Task 5 – Construction of Monitor Wells

5.7.1 Task 5.1 – Public Bidding Process

The District Engineer and Consultant Engineer will oversee the public bidding process for the Project on behalf of the District Board of Directors. This will include the Notice to Bidders (subtask 5.11), Pre-Bid Meeting (subtask 5.12), Public Bid Opening and Bid Evaluation (subtask 5.13) and the Bid Award (subtask 5.14).

The District will publish a notice to bidders in a local newspaper publication for two consecutive weeks. This notice will provide as the official title for the Project and will briefly detail the work as described in the Construction Plans and Specifications and where the said Plans and Specifications may be obtained and at what cost. The notice to bidders will also include the location and time of the Pre-Bid meeting, the location and time where the bids will be publicly opened and read.

The District will conduct a pre-bid meeting with interested bidding contractors to review information in the Construction Plans and Specifications, and answer any submitted request for information(s) by bidding contractors.

The District will publicly open all submitted bids at the District Office at a time and date to be determined, but anticipated to be on or around October 18, 2013. The submitting

contractor's name and total bid amount will be read aloud to those present. Upon completion of the public bid opening, the District Engineer and Consultant Engineer will begin evaluating the submitted bids for concurrence with the Project Specifications. A Bid abstract will be developed and a copy made available to DWR along with a copy of the recommendation letter to the District Board of Directors.

The District Board of Directors will Award to the low bidding contractor, who has satisfied all requirements as listed in the Project Specifications. The District will award based on the recommendation from the District Engineer and Consultant Engineer and will direct them to issue the Notice of Award. A copy of the meeting minutes and Notice of award will be provided within thirty (30) days to DWR.

5.7.2 Task 5.2 – Labor Compliance Program

The District will adopt and enforce a labor compliance program pursuant to California Labor Code §1771.5(b). The adopted labor compliance program will be in place prior to the award for this submitted project and will be enforced throughout the Project's construction period.

5.7.3 Task 5.3 – Construction of Monitor Wells

The work to be performed under this task (subtasks 5.3.1 through 5.3.13) will include the construction of twelve (12) monitor wells ranging from a depth of 95 feet to 780 feet below ground surface. The monitor wells will be drilled by qualified well driller with experience in the construction of monitor wells and shall have at a minimum 5 years of experience and possess a current C-57 Well Drillers License, valid in the State of California.

The selected contractor will be responsible for obtaining all county well drilling permits and shall report the results of the drilling to DWR. A well completion report will be filed with DWR upon completion of said report. Throughout the construction of each well, the borehole cuttings will be logged and classified in accordance with the Unified Soil Classification System. Well log information will include the date of drilling, type of drill rig, type of fluid additives (if applicable), depth of boring and casing intervals, including screen locations and intervals.

All twelve (12) of the monitor wells shall be drilled as an 8-inch hole, fitted with a 6-inch diameter, PVC casing, with designed perforations to allow groundwater to enter into the well casing. A sanitary seal shall be installed on each monitor well, and an above-ground lockable, painted metal housing shall be constructed.

Upon completion of the twelve monitor wells, the District will furnish and install continuous dataloggers with direct-read cables which will allow the District to collect groundwater data on a daily basis. Information collected by the continuous dataloggers prior to the completion of the draft final report will be presented in said report.

5.7.4 Task 5.4 – Construction Management/Inspection

The District Engineering Technician will be the lead inspector and construction manager under the direction of the District Engineer and Consultant Engineer. The inspector will conduct site visits to Project sites to oversee the construction of each monitor well as per the intended design as specified in the Project Construction Plans and Specifications. Inspection reports will be filled out for each site visit and will be made available to DWR as part of the quarterly reports and final report.

FIGURE 5-1

Legend

KDWCD Well Network

- Active
- Destroyed
- Measurement Discontinued
- Replaced
- Monitoring Well
- KDWCD Boundary
- TID

